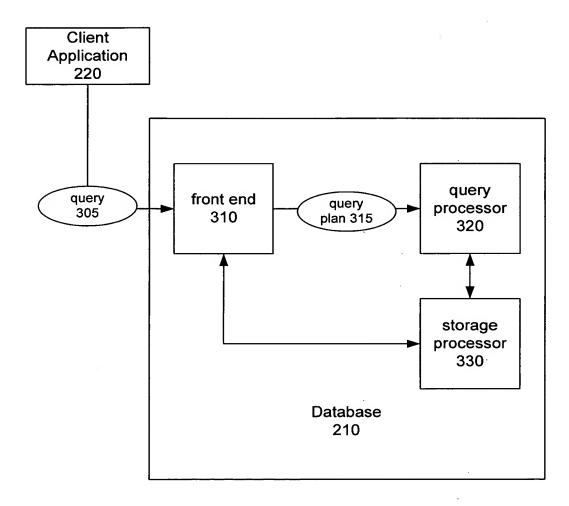
Docket No.: MSFT-2930/304868.01
App No.: Not yet Assigned Filed: Herewith
Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP
LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol
Attorney: Kenneth R. Eiferman Phone: (215) 568-3100
Sheet 1 of 15

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Fig. 1



(Prior Art)

Docket No.: MSFT-2930/304868.01

App No.: Not yet Assigned Filed: Herewith

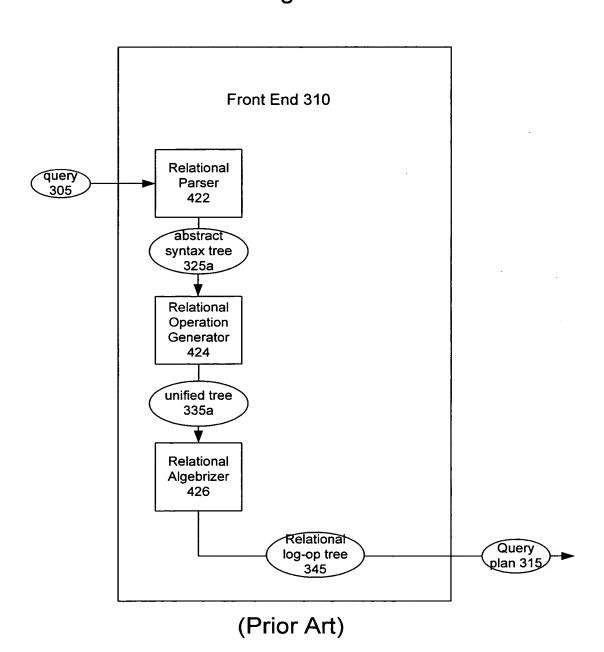
Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP

LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman Phone: (215) 568-3100

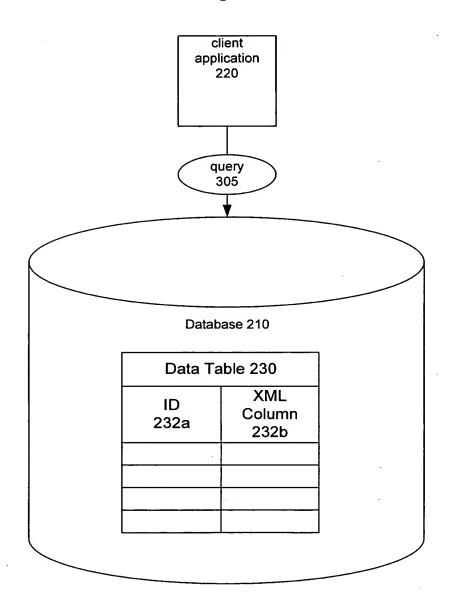
Sheet 2 of 15

Fig. 2



Docket No.: MSFT-2930/304868.01
App No.: Not yet Assigned Filed: Herewith
Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP
LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol
Attorney: Kenneth R. Eiferman
Sheet 3 of 15

Fig. 3



Docket No.: MSFT-2930/304868.01
App No.: Not yet Assigned
Filed: Herewith
Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP
LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol
Attorney: Kenneth R. Eiferman
Sheet 4 of 15
Phone: (215) 568-3100

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Fig. 4

```
CREATE XML SCHEMA COLLECTION xs_people AS
'<schema xmlns="http://www.w3.org/2001/XMLSchema"</pre>
    targetNamespace="people-uri"
    xmlns:p="people-uri">
     <element name="person" maxOccurs="unbounded">
         <complexType>
              <sequence>
                   <element ref="p:name" />
                   <element ref="p:emailaddress" />
                   <element ref="p:phone" minOccurs="0" maxOccurs="1" />
                   <element ref="p:address" minOccurs="0" maxOccurs="1" />
<element ref="p:homepage" minOccurs="0" maxOccurs="1" />
                   <element ref="p:creditcard" minOccurs="0" maxOccurs="1" />
                   <element ref="p:profile" minOccurs="0" maxOccurs="1" />
              </sequence>
              <attribute name="id" type="string" use="required" />
         </complexType>
    </element>
    <element name="name" type="string"/>
    <element name="emailaddress" type="anyURI" />
<element name="phone" type="string" />
<element name="address">
         <complexType>
              <sequence>
                   <element ref="p:street" />
                   <element ref="p:city" />
                   <element ref="p:country" />
                   <element ref="p:province" minOccurs="0" maxOccurs="1" />
                   <element ref="p:zipcode" />
              </sequence>
         </complexType>
    </element>
    <element name="street" type="string" />
<element name="city" type="normalizedString" />
    <element name="province" type="string" />
<element name="zipcode" type="string" />
    <element name="country" type="normalizedString" />
    <element name="homepage" type="anyURI" />
<element name="creditcard" type="string" />
<element name="profile">
         <complexType>
              <sequence>
                   <element ref="p:interest" minOccurs="0"</pre>
maxOccurs="unbounded" />
                   <element ref="p:education" minOccurs="0" maxOccurs="1" />
                   <element ref="p:gender" minOccurs="0" maxOccurs="1" />
                   <element ref="p:business" />
                   <element ref="p:age" minOccurs="0" maxOccurs="1" />
              </sequence>
              <attribute name="income" type="decimal" use="optional" />
         </complexType>
    </element>
    <element name="interest">
         <complexType>
              <attribute name="category" type="string" use="required" />
         </complexType>
    </element>
    <element name="education" type="normalizedString" />
    <element name="income" type="decimal" />
    <element name="gender" type="token" />
<element name="business" type="string" />
    <element name="age" type="short" />
</schema>
```

Docket No.: MSFT-2930/304868.01

App No.: Not yet Assigned Filed: Herewith

Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP

LANGUAGE BASED QUERY

Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman

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500
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <homepage>http://www.rwth-aachen.de/~Juric</homepage>
<creditcard>7833 6950 5399 8913</creditcard>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <emailaddress>mailto:Unni@llnl.gov</emailaddress>
                                                                                                                                                                                                                          <emailaddress>mailto:Demke@uu.se</emailaddress>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <creditcard>8182 1228 4493 3873</creditcard>
cprofile income="55386.86">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <education>High School</education>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <city>Athens</city>
<country>United States</country>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <country>United States</country>
                                                                       <person xmlns="people-uri" id="person0">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <person xmlns="people-uri" id="person1">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <person xmlns="people-uri" id="person2">
                                                                                                                                                                                                                                                                                                                                                                              <street>95 Grinter St</street>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cprovince>Vermont/province>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <phone>+55 (692) 72096539</phone>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <street>5 Pinet St</street>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <phone>+59 (866) 983647</phone>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <br/>

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <name>Daishiro Juric</name>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <gender>male</gender>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <zipcode>32</zipcode>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <zipcode>13</zipcode>
insert into people values(1'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               insert into people values(2'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <name>Kawon Unni</name>
                                                                                                                                                   <name>Huei Demke</name>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <city>Macon</city>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <age>37</age>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              </address>
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                                                                                                                                                                                                                                                                                                                        <address>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <address>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                </person>
```

Docket No.: MSFT-2930/304868.01

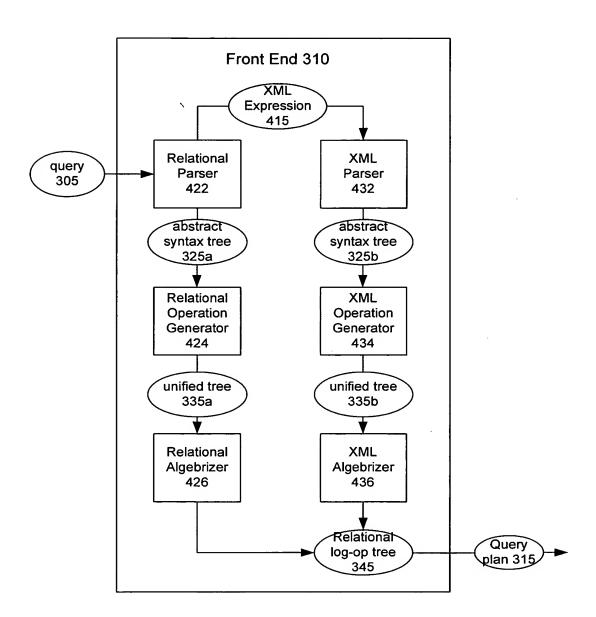
App No.: Not yet Assigned Filed: Herewith
Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP
LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman Sheet 6 of 15

Phone: (215) 568-3100

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Fig. 6



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```
[path=child::'{"people-
                       [path=child::'{"people-uri"}p:name'child::'{"people-uri"}p:person']
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               [path=child::'{"people-
                                                                        [path=child::'{"people-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       [path=child::'{"people-
                                                                                                                                                                                                                                                   uri"}p:age'child::'{"people-uri"}p:profile'child::'{"people-uri"}p:person'] '{"people-uri"}p:age
                                                                                                                                                                                                                            [path=child::'{"people-
                                                                                                                                                                                                                                                                                                   [path=child::'{"people-uri"}p:age'child::'{"people-uri"}p:profile'child::'{"people-uri"}p
                                                                                                                                                                                                                                                                           [type=element(p{people-uri}:age,xs:short) ?]
                                                                                                                                                                                                                                                                                                                                                                                                                                                    var [type=element(p{people-uri}:person)]
                                                                                                                                                                                                                                                                                                                                                                                                      <u>ر.</u>
                                                                                                                                                                                                                                                                                                                                                                                                  [type=element(p(people-uri):profile)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         var [type=element(p{people-uri}:person)] TEMP<1>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              / [type=element(p{people-uri}:person) *]
                                                                          *
                                                                                                                                                                                                                                                                                                                                                                           uri"}p:profile'child::'("people-uri")p:person'] '("people-uri")p:profile'
                                                                          ( [type=element(p{people-uri}:name,xs:string)
                                                                                                                                                                                                                                                                                                                                                                                                                         [path=child::'{"people-uri"}p:profile'child::'{"people-uri"}p:person']
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pred-ctx [type=element(p{people-uri}):person) *]
                                                                                                                          value='21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <cur.root> [type=document {...}]
                                                                                                                                                                                                 data() [type=xs:short?]
                                                                                                                                                                          coerce [type=xs:integer?]
                                                                                                                                                 > [type=xs:boolean ?]
                                                                                                                      deccon [type=Integer]
                                                                                                                                                                                                                                 name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        [path=child::'{"people-uri"}p:person'] TEMP<1>
                                                                                              uri"}p:name'child::'{"people-uri"}p:person']
                                                                                                                                                                                                                                                                                                                                                  [1E5A37EC]
                                                                                                                                                                                                                                                                                                                                                                                                                                                    [<u>1E5A3884</u>]
                                                                                                                                                                                                                          [1E5A3914]
                                                                                                                                                                                                                                                                                                                                                                                                  [1E5A38B4]
                                                                                                                                                                                                                                                                          1E5A38E4]
                            name
                                                                                                                                                                                                   [1E5A059C]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              [1E5A375C]
                                                                                                                                                                        [1E5A05F4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             [1E5A378C]
st>
                                               '{"people-uri"}p:name'
                                                                                                                                             [1E5A3944]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             [1E5A372C]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     [1E5A39E4]
                       [1E5A3AE4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     [1E5A3A44]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    uri"}p:person']
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              uri"}p:person']
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      uri")p:person'
                                                                      [1E5A3A74]
 [1E5A3B14]
                                                                                                                                                                                                                                                                                                                           :person'l
```

Fig. 7

325b

Docket No.: MSFT-2930/304868.01
App No.: Not yet Assigned Filed: Herewith
Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP
LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol
Attorney: Kenneth R. Eiferman Phone: (215) 568-3100

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Fig. 8

335b

```
<XmlOp_Apply VarName="#3" Simple="Yes" >
   <XmlOp_Select VarName="%1" >
      <XmlOp_Path Path="/Child:Element(people-uri:person)" >
      </XmlOp Path>
      <XmlOp_Compare Operator=">" > "
          <XmlOp_Coerce Simple="Yes" >
             <XmlOp Accessor Type="Value" >
                <XmlOp Path Path="/Child:Element(people-</pre>
uri:profile)/Child:Element(people-uri:age) " Context="%1"
ContextPath="/Child:Element(people-uri:person)" >
             </MnlOp_Path>
</MnlOp_Accessor>
          </XmlOp Coerce>
          <XmlOp_Constant Value="numeric,Not</pre>
Owned, Value=(len, prec, scale)=(9,38,10)" > 
</XmlOp_Constant>
      </XmlOp_Compare>
   </XmlOp Select>
   <XmlOp_Path Path="/Child:Element(people-uri:name)" Context="#3"</pre>
ContextPath="/Child:Element(people-uri:person)" >
   </XmlOp_Path>
</XmlOp_Apply>
```

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```
LogOp_Select
LogOp_Get TBL: xidx_people(alias TBL: age:2) xidx_people
LogOp_Comp x_cmpEq
ScaOp_Comp x_cmpEq
ScaOp_Identifier QCOL: [xmlalgdocidx].[dbo].[people].p_id
ScaOp_Identifier QCOL: [age:2].pk1
LogOp_Apply (x_jtInner)

LogOp_Apply (x_jtInner)

LogOp_Select

LogOp_Select

LogOp_Comp x cmpEq

ScaOp_Comp x cmpEq

ScaOp_Identifier QCOL: [xmlalgdocidx]. [dbo]. [people].p_id

LogOp_ConstTableGet (1) [empty]

ScaOp_Comp x cmpEq

ScaOp_Comp x cmpEq

ScaOp_Const. [person:1].hid

ScaOp_Const. [const. 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Logup Constranterer (1) (empty)

ScaOp Comp x cmpEq
ScaOp Const
ScaOp Const
ScaOp Comp x cmpEq
ScaOp Logical x lopAnd
ScaOp Identifier QCOL: [person:1].id
ScaOp Intrinsic getancestor
ScaOp Identifier QCOL: [age:2].id
ScaOp Const
ScaOp Const
ScaOp Identifier QCOL: [person:1].id
ScaOp Comp x cmpLe
ScaOp Identifier QCOL: [age:2].id
ScaOp Identifier QCOL: [age:2].id
ScaOp Identifier QCOL: [age:2].id
ScaOp Intrinsic getdescendantlimit
ScaOp Intrinsic getdescendantlimit
ScaOp Intrinsic getdescendantlimit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LogOp_Select /* p:person/p:profile/p:age */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LogOp_Join
```

ScaOp Identifier QCOL: [age:2].id

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Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman Phone: (215) 568-3100

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```
Logop_Select
Logop_Get TBL: xidx_people(alias TBL: name:3) xidx_people
Logop_Comp x_cmpEq
ScaOp_Comp x_cmpEq
ScaOp_Identifier QCOL: [xmlalgdocidx].[dbo].[people].p_id
ScaOp_Identifier QCOL: [name:3].pk1
                                                                                                                                                                                    345
                                                                                      Logop_ConstTableGet (1) [empty]
AncOp_PrjList
AncOp_PrjEl COL: Expr1007
ScaOp_Comp x cmpGt
ScaOp_Identifier QCOL: [age:2].value
ScaOp_Identifier QCOL: [age:2].value
ScaOp_Identifier COL: Expr1007
LogOp_Select /* p:person/p:name */
                Scaop_Identifier QCOL: [age:2].value
Scaop_Const
LogOp_Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scaop Identifier QCOL: [name:3].hid
Scaop Identifier QCOL: [name:3].hid
Scaop Comp x cmpEq
Scaop Identifier QCOL: [person:1].id
Scaop Intrinsic getancestor
Scaop Identifier QCOL: [name:3].id
Scaop Comp x cmpLe
Scaop Identifier QCOL: [person:1].id
Scaop Comp x cmpLe
Scaop Identifier QCOL: [person:1].id
Scaop Identifier QCOL: [person:1].id
Scaop Comp x cmpGt
Scaop Intrinsic getdescendantlimit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ScaOp_Identifier_QCOL: [person:1].id
ScaOp_Identifier_QCOL: [name:3].id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ancop_PrjEl COL: Expr1010
ScaOp_Intrinsic manufactureconstructordpath
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ScaOp_Const
ScaOp_Identifier QCOL: [name:3].id
ScaOp_Const
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LogOp_ConstTableGet (1) [empty] ScaOp_Comp x_cmpEq
ScaOp Comp x cmpIsNot
                                                                                                                                                                                                                                                                                                                                 Logop Join
```

Docket No.: MSFT-2930/304868.01

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Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP

LANGUAGE BASED QUERY

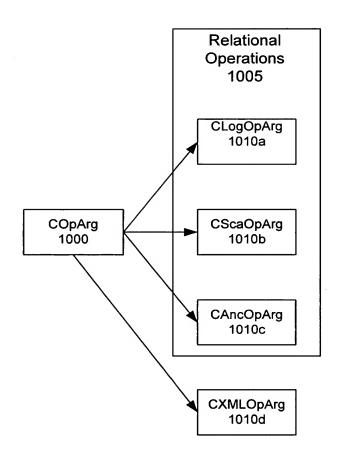
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,

Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman Phone: (215) 568-3100

Sheet 11 of 15

Fig. 10

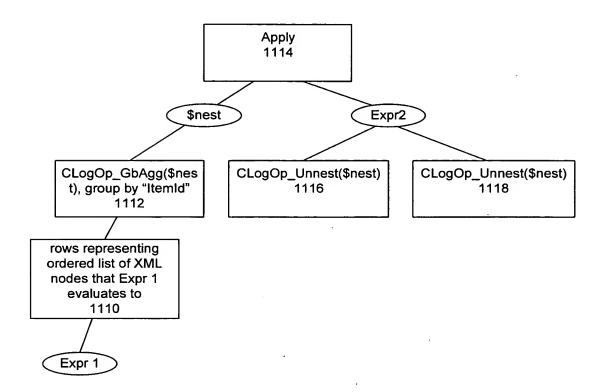


Docket No.: MSFT-2930/304868.01

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Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol
Attorney: Kenneth R. Eiferman
Sheet 12 of 15
Phone: (215) 568-3100

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Fig. 11

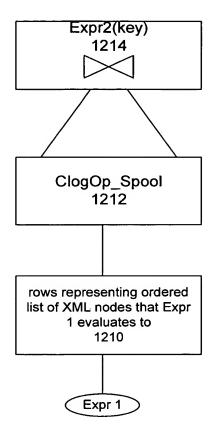


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Title: SYSTEM AND METHOD FOR COMPILING AN EXTENSIBLE MARKUP
LANGUAGE BASED QUERY
Inventors: Shankar Pal, Istvan Cseri, Oliver Seeliger, Gideon Schaller, Adrian Baras, Wei Yu,
Denis Churin and Peter Kukol

Attorney: Kenneth R. Eiferman

Phone: (215) 568-3100

Fig. 12



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App No.: Not yet Assigned Filed: Herewith
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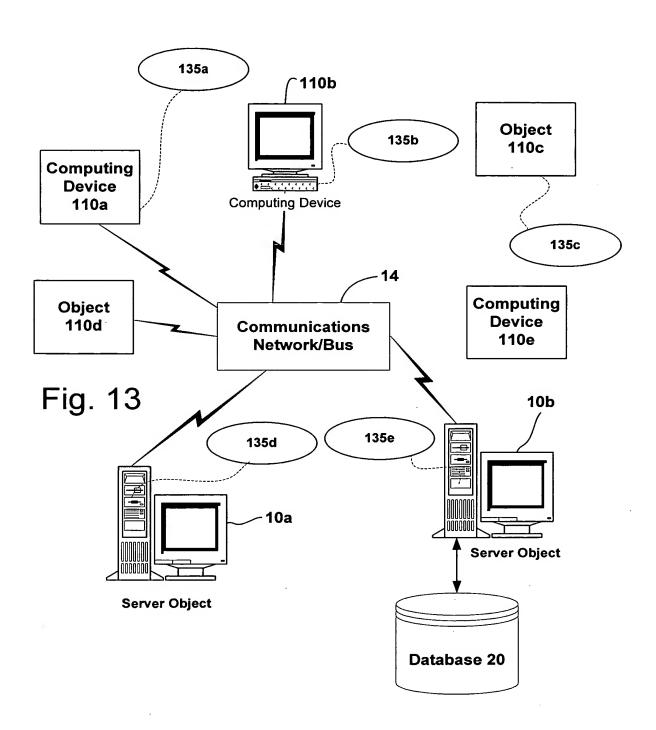
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Denis Churin and Peter Kukol Attorney: Kenneth R. Eiferman Sheet 14 of 15

Phone: (215) 568-3100

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